

WHAT IS CLAIMED IS:

1. A display device comprising:

a pixel portion including $m \times n$ pixels (m and n are both natural numbers and satisfy the relation $m < n$), said pixels each having a TFT;

a gate driver for feeding n gate signal lines with selection signals;

a source driver for feeding m source signal lines with video data; and

a video data converter circuit, wherein

said video data converter circuit converts first video data (h, k) ($h = 1 \sim m, k = 1 \sim n$) into second video data, and wherein

the video data (h, k) constituting said first video data is converted into $\{m(k - 1) + h\}$ -th video data that constitutes said second video data.

2. A display device comprising:

a pixel portion including $m \times n$ pixels (in a pixel (h, k), $h = 1 \sim m, k = 1 \sim n$, with m and n both being natural numbers and satisfying the relation $m < n$), said pixels each having a TFT;

a gate driver for feeding n gate signal lines with selection signals;

a source driver for feeding m source signal lines with video data; and

a video data converter circuit, wherein

said video data converter circuit converts first video data (h, k) ($h = 1 \sim m, k = 1 \sim n$) which is to be fed to said pixel (h, k) into second video data, and wherein

the video data (h, k) constituting said first video data is converted into $\{m(k - 1) + h\}$ -th video

data that constitutes said second video data.

3. A rear projector wherein three display devices according to claim 1 are used.

4. A front projector wherein three display devices according to claim 1 are used.

5. A rear projector wherein one display device according to claim 1 is used.

6. A front projector wherein one display device according to claim 1 is used.

7. Electronic equipment comprising a display device according to claim 1 is selected from the group consisting of a head mount display, a computer, a video camera, a DVD player, and display apparatus.

8. A rear projector wherein three display devices according to claim 2 are used.

9. A front projector wherein three display devices according to claim 2 are used.

10. A rear projector wherein one display device according to claim 2 is used.

11. A front projector wherein one display device according to claim 2 is used.

12. Electronic equipment comprising a display device according to claim 2 is selected from

the group consisting of a head mount display, a computer, a video camera, a DVD player, and display apparatus.

13. A display device according to claim 1 is a liquid crystal display device.

14. A display device according to claim 2 is a liquid crystal display device.

15. A display device comprising:

a pixel portion including $m \times n$ pixels (m and n are both natural numbers and satisfy the relation $m < n$), said pixels each having a TFT;

a gate driver for feeding n gate signal lines with selection signals; and

a source driver for feeding m source signal lines with video data.

16. Electronic equipment comprising a display device according to claim 15 is selected from the group consisting of a front projector, a rear projector, a head mount display, a computer, a video camera, a DVD player, and display apparatus.

17. A display device according to claim 15 is a liquid crystal display device.

18. A display device comprising:

a pixel portion including a plurality of pixels each having a TFT;

a gate driver provided above said pixel portion; and

a source driver provided on one side of said pixel portion,

wherein a lateral length of said pixel portion is longer than a longitudinal length.

19. Electronic equipment comprising a display device according to claim 18 is selected from the group consisting of a front projector, a rear projector, a head mount display, a computer, a video camera, a DVD player, and display apparatus.

20. A display device according to claim 18 is a liquid crystal display device.

21. A display device comprising:

a pixel portion including a plurality of pixels each having a TFT;

a plurality of gate signal lines connected to a gate driver; and

a plurality of source signal lines connected to a source driver,

wherein said plurality of gate signal lines are vertical and said plurality of source signal lines are horizontal.

22. Electronic equipment comprising a display device according to claim 21 is selected from the group consisting of a front projector, a rear projector, a head mount display, a computer, a video camera, a DVD player, and display apparatus.

23. A display device according to claim 21 is a liquid crystal display device.